

Category: GPCR-novel

ID: gi6863021\_GS\_nt7

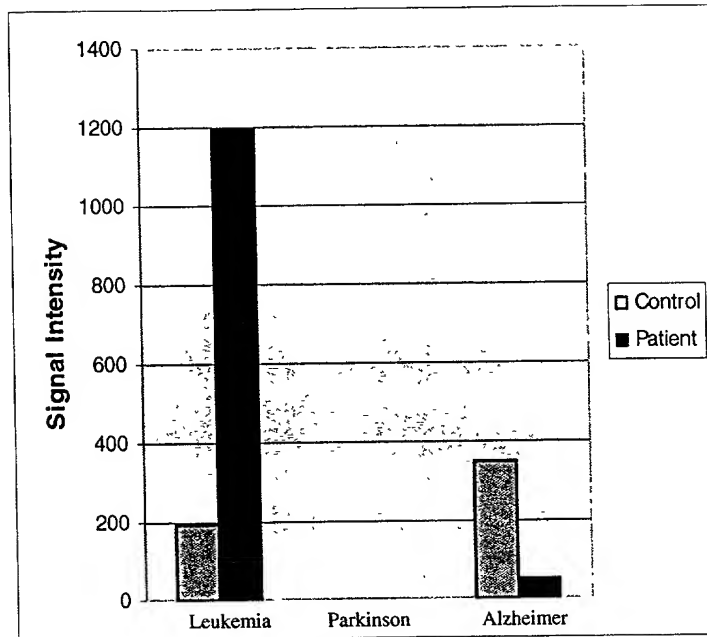


Figure 1A

Sequence:

>gi6863021\_GS\_nt7' AP001112

atgctcaatctccacgatgtgacagagttcattcttttggggctaacgagccgtcgagaatggcaagtt  
 ctcttcttcatcatcttcttgtggtctacatcatcaccatgggtgggcaatatcgccatgatgggtgta  
 atcaaggtcagtcctcagcttaacaaccccatgtacttttctcagtcacttgtcatttgttgatgtg  
 tggttttcttccaatgtcaccctaaaatgttggaaaacctgttttcagataaaaaacaattacttat  
 gctggttggttagtacagtggttcttcttcatgtctcttgcctatgtggaaatttttattcttgctgcg  
 atggccttgatagatacatggcaattgggaatcctctgctttatggcagtaaaatgtcaagggttgct  
 tgtattcgactgattactttcccttacatttatgggttttctgacgagtctggcagcaacattatggact  
 tacggcttgacttctgtggaaaaattgagatcaaccatttctactgtgcagatccacctctcatcaaa  
 atggcctgtgcccgggacctttgtaaaagaatatacaatgatcatacttgccggcattaacttcacatat  
 tccctgactgtaattatcatctcttacttattcatcctcattgccattctgcgaatgcgctcagcagaa  
 ggaaggcagaaggccttttccacatgtgggtcccatctgacagctgtcattatattctatgggtactctg  
 atcttcatgtatctcagacgtccacagaggagtctgtggagcaggggaagatgggtggctgtgttctat  
 accacagtgatcccatgttgaatcccatgatctacagctctgaggaacaaggatgtgaaaaaggccatg  
 atgaaagtgatcagcagatcatgttaa

Figure 1B

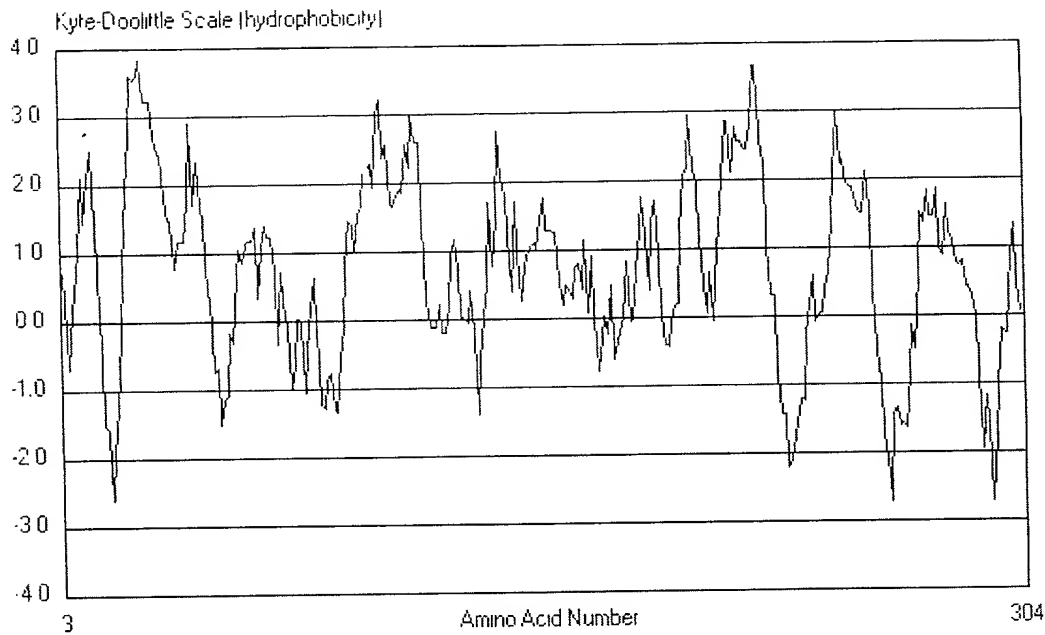


Figure 1D

```
>gi6863021_GS_nt7    AP001112
MLNFTDVTEFILLGLTSRREWQVLFFIIFLVVYIITMVGNI GMMVLIKVS
PQLNNPMYFFLSHLSFVDVWFSSNVTPKMLENLFS DKKTTITYAGCLVQCF
FFIALVHVEIFILAAMAFDRYMAIGNPLLYGSKMSRVVCIRLITFPYIYG
FLTSLAATLWTYGLYFCGKIEINH FYCADPPLIKMACAGTFVKEYTMIIL
AGINFTYSLTVIIISYLFILIAILMRSAEGRQKAFSTCGSHLTAVIIFY
GTLIFMYLRRPTEESVEQGKMVA VFYTTVIPMLNP MIYSLRNKDVKKAMM
KVISRSC*
```

Figure 1C

Category: GPCR-Novel

ID: gi6453999\_GS\_nt6

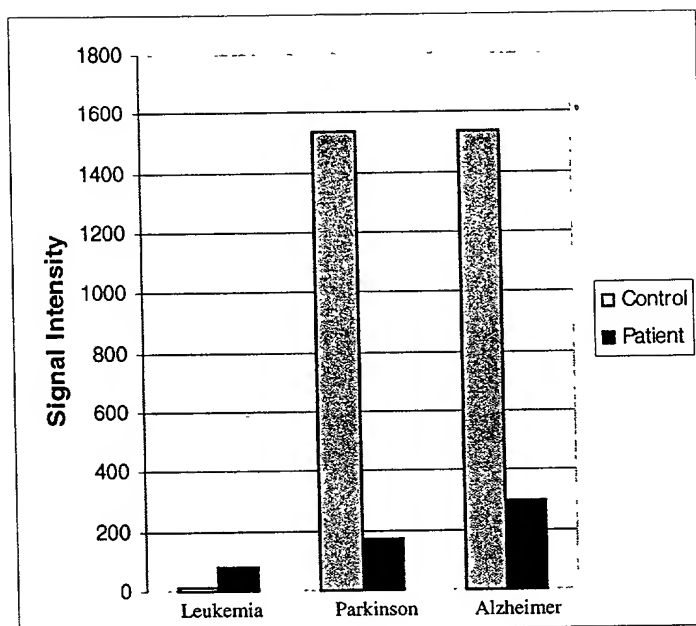


Figure 2A

**Sequence:**

>gi6453999\_GS\_nt6 AC011571

atggatcagaaaaatggaagtctctttcactggatttactactgggtttctctg  
acaggcctcagctggagctagtcctctttgtgggtcttttgatcttctatatctt  
cactttgctggggaacaaaaccatcattgtattatctcacttggaccacatctt  
cacactcctatgtattttttcttctccaacctaaagcttttggatctgtgttaca  
caaccggcattgttccacagctcctgggttaatctcaggggagcagacaaatcaat  
ctcctatgggtgtgtgtgttagttcagctgtacatctctctaggcttgggatctaca  
gaatgcgttctcttaggagtgatgggtatttgaccgctatgcagctgtttgcaggc  
ccctccactacacagtagtcatgcacccttgtctgtatgtgctgatggcttctac  
ttcatgggtcattgggttttgccaactccctattgcagacgggtgctcatcttgctt  
ttaacactttgtggaagaaataaattagaacactttctttgtgaggttcctccat  
tgctcaagcttgctgtgttgacactactatgaatgaatctgaactcttctttgt  
cagtgctcattattcttctgtacctgttgcattaatcatattctcctatagtcag  
attgtcagggcagtcagtaggataaagtttagcaacagggcagagaaaagtgtttg  
ggacatgtggctcccacctcacagtggtttccctgttctacggcacagctatcta  
tgcttacctccagcccggaacaactactctcaggatcagggcaagttcatctct  
ctcttctacaccatcattacaccatgatcaacccctcatatatacactgagga  
acaaggatgtgaaaggagcacttaagaaggtgctctggaagaactacgactccag  
atga

Figure 2B

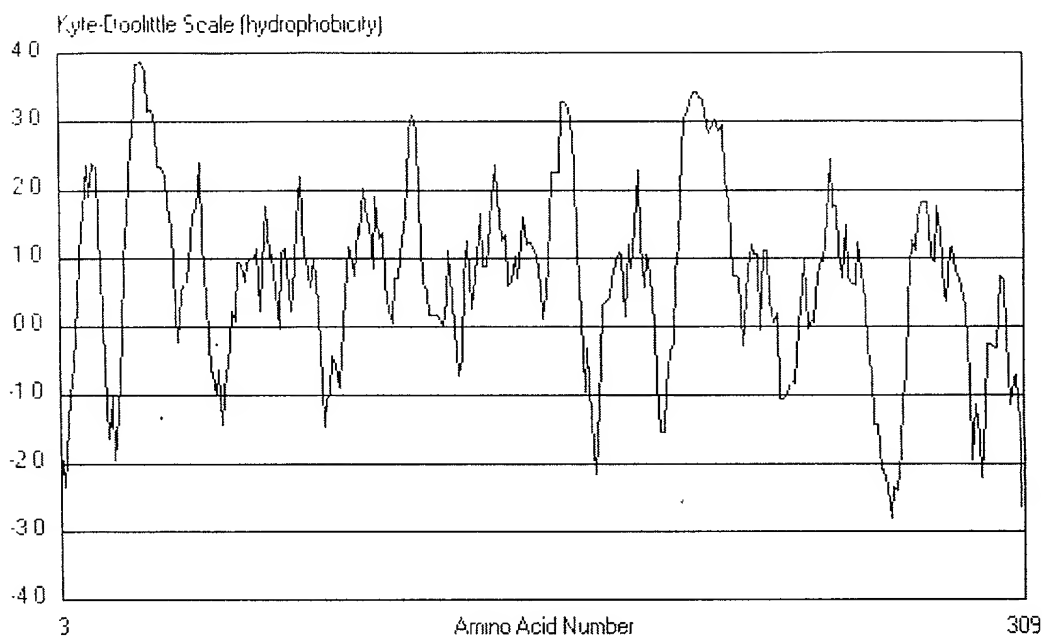


Figure 2D

```

>gi6453999_GS_nt6    AC011571
MDQKNGSSFTGFILLGFSDRPQLELVLFVVLLIFYIFTLLGNKTIIVLSH
LDPHLHTPMYFFFSNLSFLDLCYTTGIVPQLLVNLRGADKSISYGGCVVQ
LYISLGLGSTECVLLGVMVFDRYAAVCRPLHYTVVMHPCLYVLMASWSWV
IGFANSLQLQTVLILLTLTCGRNKLEHFLCEVPPLLKLACVDTTMNESELF
FVSVIILLVPVALIIFSYSQIVRAVMRIKLATGQRKVFGTCGSHLTVVSL
FYGTAIYAYLQPGNNYSQDQGKFISLFYTTITPMINPLIYTLRNKDVKGA
LKKVLWKNYDSR*
  
```

Figure 2C

Category: GPCR-novel

ID: gi6671985\_GS\_nt9.2

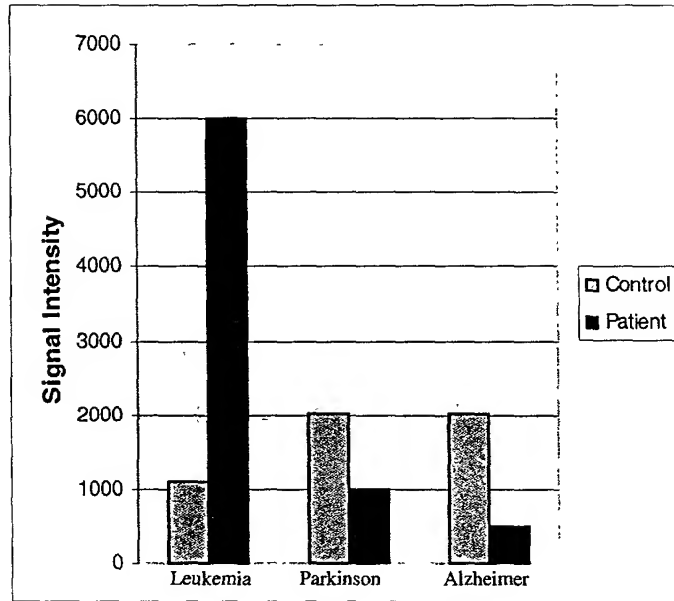


Figure 3A

### Sequence:

>gi6671985\_GS\_nt9.2

```
atggctgcaggaaatcactctacagtgcagaggttcattctcaagggtttaacgaagagagcag
acctccagctccccctctttctcctctcctcgggatctacttggtcaccatcgtggggaacct
gggcatgatcactctaatgtgtctgaactctcagctgcacacccccatgtactactttctcagc
aatctgtcactcatggatctctgctactcctccgtcattaccctaagatgctggggaactttg
tgtagagaaaaacatcatctcctacgcagggtgcatgtcacagctctacttctccttggttt
tgtagtgctgagtggttacatgctgacagtgatggcctacgaccgctatgttgncntctgccac
cctttgctttacaacatcattatgtctcatcacacctgcctgctgctggggtgtggtctacg
ccatcggaactcattgggtccacaatagaaactggcctcatgttaaaactgcctattgtgagca
cctcatcagtcactactttctgtgacatcctccctctcatgaagctgtcctgctctagcacctat
gatgttgagatgacagctcttcttttcggctggattcaacatcatagtcacgagcttaacagttc
ttgtttcttacaccttcattctctccagcatcctcggaatcagcaccacagaggggagatccaa
agccttcagcacctgcagctcccaccttgagccgtgggaatgttctatggatcaactgcattc
atgtactttaaaccctccacaatcagttccttgaccaggagaatgtggcctctgtgttctaca
ccacggtaatccccatgttgaaatcccctaattctacagcctgaggaacaaggaagtaaggctgc
cgtgcagaaaacgctgaggggttaaactgttttga
```

Figure 3B

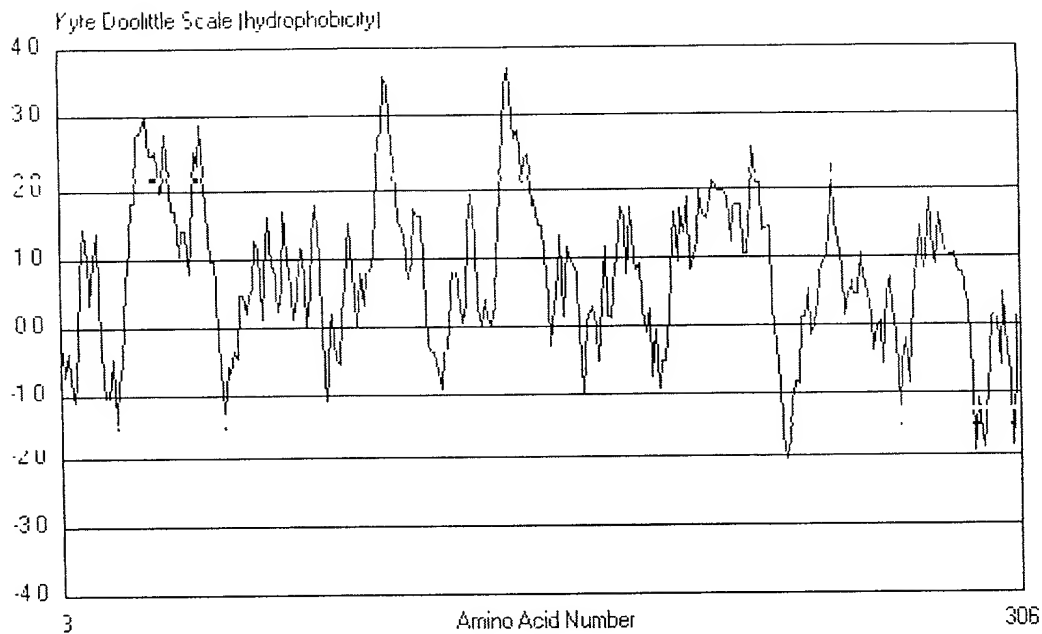


Figure 3D

>gi6671985\_GS\_nt9.2

MAAGNHSTVTEFILKGLTKRADLQLPLFLLFLGIYLVTVGNLGMITLIC  
LNSQLHTPMYYFLSNLSLMDLCYSSVITPKMLVNFVSEKNIISYAGCMSQ  
LYFFLVFVIAECYMLTVMAYDRYVXXCHPLLYNIIMSHHTCLLLVAVVYA  
IGLIGSTIETGLMLKLPYCEHLISHYFCDILPLMKLSCSSTYDVEMTVFF  
SAGFNIIVTSLTVLVSYTFILSSILGISTTEGRSKAFSTCSSHLAAVGMF  
YGSTAFMYLKPSTISSLTQENVASVFYTTVIPMLNPLIYSLRNKEVKA  
AVQKTLRGKLF\*

Figure 3C

Category: GPCR-Novel

ID: gi5791525\_GS\_nt10

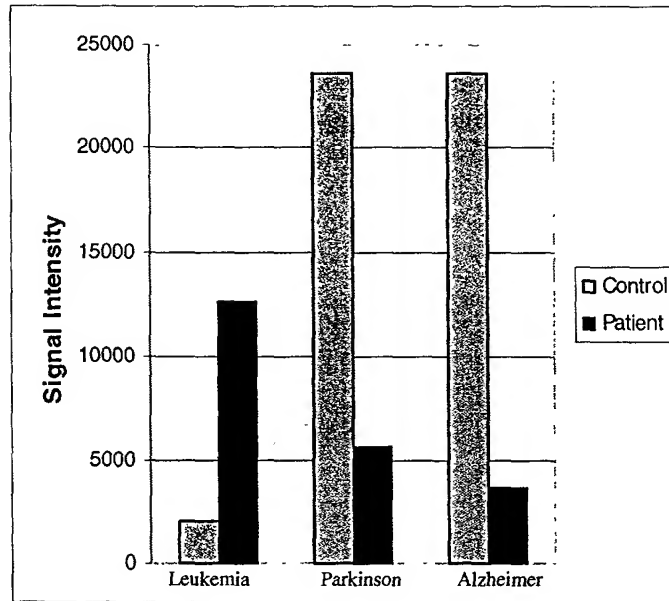


Figure 4A

Sequence:

>gi5791525\_GS\_nt10

HSJ154J13

```
atggccatggacaatgtcacagcagtggttcagtttctccttattggcatttctaactatcct
caatggagagacacgtttttcacattagtgctgataatttacctcagcacattggtggggaat
ggatttatgatcttttcttattcactttgaccccaacctccacactccaatctacttcttcctt
agtaacctgtcttttcttagacctttgttatggaacagcttccatgccccaggctttggtgcat
tgtttctctacccatccctacctctcttatccccgatgtttggctcaaacgagtgtctccttg
gctttggccacagcagtgagtgctcctactggctgccatggcctatgaccgtgtggttgctatc
agcaatccccctgctgtattcagtggttatgaatggcccagtatgtgtctgcttggttgctacc
tcattgggggacatcacttggtgctcactgccatgctcatcctatccctgaggcttcacttctgt
ggggctaattgtcatcaaccattttgctgtgagattctctccctcattaagctgacctgttct
gataccagcctcaatgaatttatgatcctcatcaccagtatcttcacctgctgctaccattt
gggtttgttctcctctcctacatacgaattgctatggctatcataaggattoctcactccag
ggcaggctcaaggcctttaccacatgtggctctcacctgaccgtggtgacaatcttctatggg
tcagccatctccatgtatatgaaaactcagtcacaagtcctaccctgaccaggacaagtttatc
tcagtgttttatggagctttgacacccatgttgaaacccctgatatatagcctgagaaaaaaa
gatgttaaaccgggaataaggaaagtattgttgaaaaggacatga
```

Figure 4B

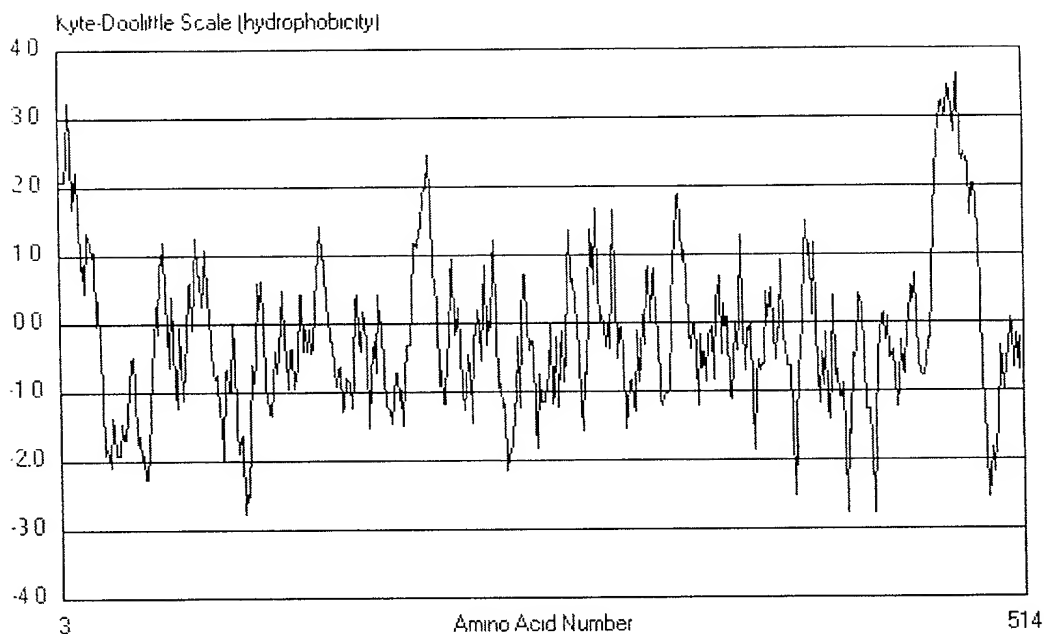


Figure 4D

```
>gi5791525_GS_nt10  HSJ154J13
MAMDNVTAVFQFLIGISNYPQWRDTFFTLVLIYYLSTLLGNGFMIFLIH
FDPNLHTPIYFFLSNLSFLDLCYGTASMPQALVHCFSTHPYLSYPRCLAQ
TSVSLALATAECLLLAAMAYDRVVAISNPLRYSVVMNGPVCVCLVATSWG
TSLVLTAMLILSLRLHFCGANVINHFACIILSLIKLTCSDTSLNEFMILI
TSIFTLLLPFGFVLLSYIRIAMAIIRIRSLQGRLKAFTTCGSHLTVVTIF
YGSAISMYMKTQSKSYPDQDKFISVFYGALTPMLNPLIYSLRKKDVKRAI
RKVMLKRT*
```

Figure 4C



Category: GPCR-novel

ID: gi6454063\_GS\_nt8

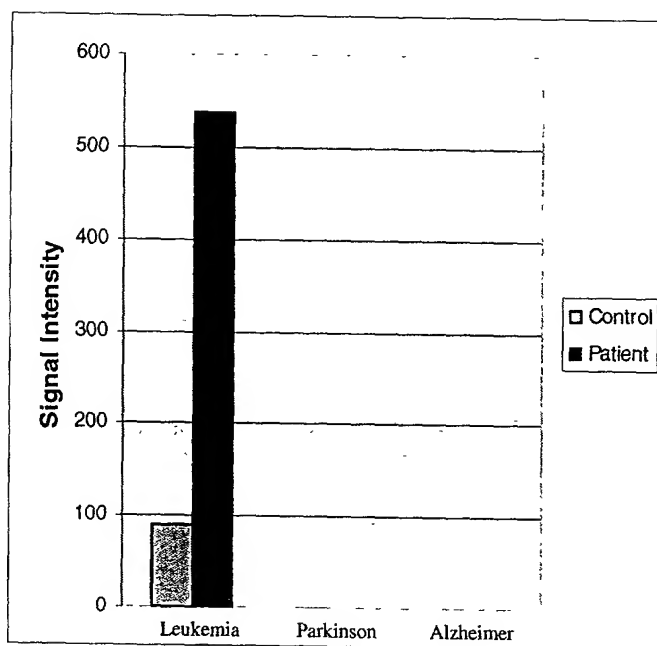


Figure 5A

### Sequence:

>gi6454063\_GS\_nt8

AC010930

```

atgtcagcctccaatatcaccttaacacatccaactgccttcttgttggtggggattccaggcct
ggaacacctgcacatctggatctccatccctttctgcttagcatatacactggccctgcttgaa
actgcactctccttctcatcatccaggtgatgcagccctccatgaacccatgtacctcttctg
gcatgttgccagccatcgacctggctccttctcctcagcactgcccacaaatgcttgccatatt
ctgggtcagggatcgggagataaacttctttgctgtctggccagatgttcttcttctcactcct
tctccatcatggagtcagcagtgctgctggccatggcctttgaccgctatgtggctatctgcaag
ccactgcactacaccaaggtcctgactgggtccctcatcaccaagattggcatggctgctgtggc
ccgggctgtgacactaatgactccactcccttctcctgctgagatgtttccactactgccgaggcc
cagtgatcgctcactgctactgtgaacacatggctgtggtgaggctggcgtgtggggacactagc
ttcaacaatatctatggcatcgctgtggccatgtttattgtggtgttgaccctgctccttggtat
cctgtcttatatctttatcttcaggcagttctactgcttgctctcaggaggcccgctacaagg
catttgggacatgtgtctcctcatataggtgccatcttagccttctacacaactgtggctcatctct
tcagtcacgcacgtgtgtagcccgccatgctgccctcatgtccacatcctccttgccaatttcta
tctgctcttccacccatgggtcaatcccataatctatgggtgtcaagaccaagcaaatccgtgaga
gcactctgggagatttccaagaaaggatatgtag

```

Figure 5B

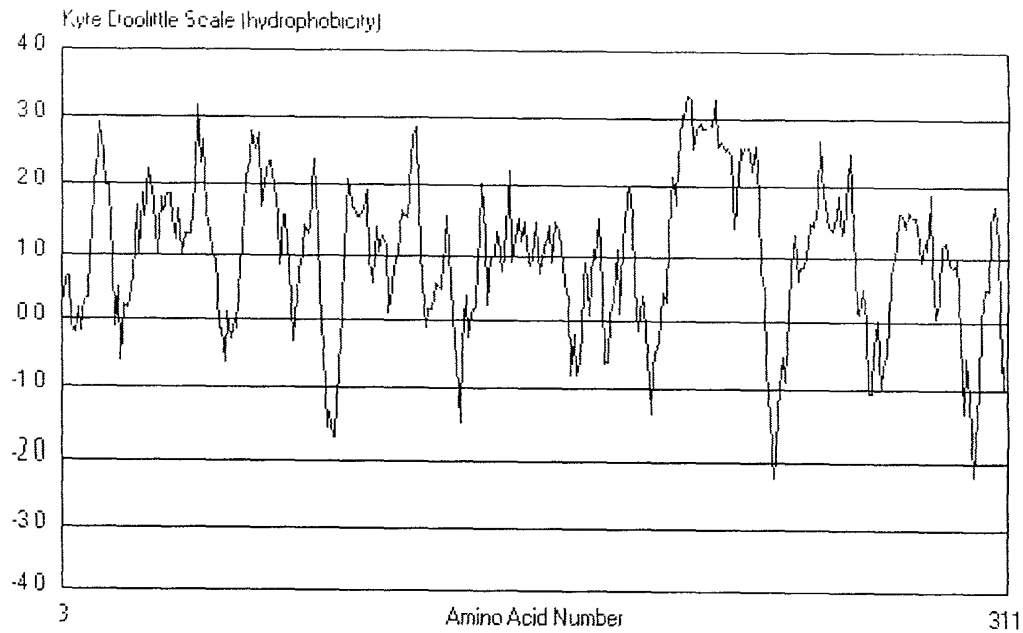


Figure 5D

```
>gi6454063_GS_nt8    AC010930
MSASNITLTHPTAFLLVGIPGLEHLHIWISIPFCLAYTLALLGNCTLLLI
IQADAALHEPMYLFLAMLAAIDLVLSSSALPKMLAIFWFRDREINFFACL
AQMFFLHSFSIMESAVLLAMAFDRYVAICKPLHYTKVLTGSLITKIGMAA
VARAVTLMTPLPFLLRFCFHYCRGPVIAHCYCEHMAVVRLACGDTSFNNIY
GIAVAMFIVVLDLLLVLISYIFILQAVLLLASQEARYKAFGTCVSHIGAI
LAFYTTVVISSVMHRVARHAAPHVHILLANFYLLFPPMVNPIIYGVKTKQ
IRESILGVFPRKDM*
```

Figure 5C